Application No. 09/848,600 Supplemental Reply to Office Action of June 30, 2003

Amendments to and Listing of the Claims:

1. to 19. (Canceled)

- 20. (Previously presented) A drug delivery composition for the treatment of a viral infection affecting the nasal cavity comprising a chitosan solution and Intercellular Adhesion Molecule-1 (ICAM-1), wherein the ICAM-1 is present in the composition in a concentration of 0.01% to 20% by weight per volume and the composition is adapted to adhere to the epithelia and/or mucosal surface of the nasal cavity upon administration.
- 21. (Previously presented) The drug delivery composition of claim 20, wherein the chitosan solution contains chitosan in a concentration of 0.2% to 5% weight per volume.
- 22. (Previously presented) A drug delivery composition for nasal administration comprising a plurality of microspheres and Intercellular Adhesion Molecule-1 (ICAM-1), wherein the microspheres comprise a material selected from starch chitosan, gellan, gelatin, hyaluronic acid, alginate, and gellan; the ICAM-1 is present in the composition in a concentration of about 0.1% to 50% by weight per volume; and the composition is adapted to adhere to the epithelia and/or mucosal surface of the nasal cavity.
- 23. (Previously presented) The drug delivery composition of claim 22, wherein the I-CAM is present in an amount of 1 to 20% by weight of the microspheres.
- 24. (Previously presented) The drug delivery composition of claim 22, wherein each of the microspheres has a diameter of 1 to 200 microns.
- 25. (Previously presented) The drug delivery composition of claim 22, wherein each of the microspheres has a diameter of 40 to 60 microns.
- 26. (Previously presented) A method of intranasally administering Intercellular Adhesion Molecule-1 (ICAM-1) for treatment of a viral infection affecting the nasal cavity to a patient comprising adhering an antivirally effective amount of a composition to the epithelia and/or mucosal surfaces of the nasal cavity of the patient, wherein the composition comprises ICAM-1 and a bioadhesive material selected from:
 - (a) a chitosan solution, and

10

Application No. 09/848,600 Supplemental Reply to Office Action of June 30, 2003

- (b) a plurality of microspheres, the microspheres comprising a material selected from the group consisting of starch, chitosan, gelatin, gellan, hyaluronic acid, and alginate.
- 27. (Previously presented) The method of claim 26, wherein the composition is adhered by a chemical or physical bond selected from Van der Waals interaction, ionic interaction, hydrogen bonding, and polymer chain entanglement.
- 28. (Previously presented) The method of claim 26, wherein the bioadhesive material is a chitosan solution and the chitosan is present in the solution in an amount of 0.2% to 5% weight per volume.
- 29. (Previously presented) The method of claim 26, wherein the bioadhesive material is the plurality of microspheres and the ICAM-1 is present in the composition in an amount of about 0.1 and 50% by weight of the microspheres
- 30. (Previously presented) The method of claim 29, wherein the ICAM-1 is present in an amount of 1 to 20% by weight of the microspheres.
- 31. (Previously presented) The method of claim 26, wherein the bioadhesive material is a plurality of microspheres each having a diameter of 1 to 200 microns.
- 32. (Previously presented) The method of claim 26, wherein the bioadhesive material is a plurality of microspheres each having a diameter of 40 to 60 μm .
- 33. (Previously presented) A method of treatment of a viral infection affecting the nasal cavity comprising administering to the nasal cavity an antivirally effective amount of a composition comprising ICAM-1 and a bioadhesive material selected from:
 - (a) a chitosan solution, and
- (b) a plurality of microspheres, the microspheres comprising a material selected from the group consisting of starch, chitosan, gelatin, gellan, hyaluronic acid, and alginate,

which composition adheres to the epithelia and/or mucosal surface of the nasal cavity upon administration:

60

Application No. 09/848,600 Supplemental Reply to Office Action of June 30, 2003

- 34. (Previously presented) A method of improving retention of an ICAM-1 composition in the nasal cavity for treatment of a viral infection affecting the nasal cavity, the method comprising administering to the nasal cavity an antivirally effective amount of a composition comprising ICAM-1 and a bioadhesive material selected from:
 - (a) a chitosan solution, and
- (b) a plurality of microspheres, the microspheres comprising a material selected from the group consisting of starch, chitosan, gelatin, gellan, hyaluronic acid, and alginate,

which composition is adapted to adhere to the epithelia and/or mucosal surface of the nasal cavity, thereby increasing the retention of the composition in the nasal cavity.

- 35. (Previously presented) The method of claim 34, wherein the composition is adhered by a chemical or physical bond selected from Van de Waals interaction, ionic interaction, hydrogen bonding, and polymer chain entanglement.
- 36. (New) The method of claim 26, wherein the bioadhesive material is a chitosan solution and the ICAM-1 is present in the solution in an amount of 0.01 to 20% by weight per volume.